0500

```
        RAW SEQUENCE LISTING            DATE: 09/13/2000
        PATENT APPLICATION:  US/09/649,811    TIME: 18:20:28

        Input Set : A:\471c11.app
        Output Set: N:\CRF3\09132000\I649811.raw

     4 <110> APPLICANT: Xu, Jiangchun
     5        Lodes, Michael J.
     6        Secrist, Heather
     7        Benson, Darin R.
     8        Meagher, Madeleine Joy
     9        King, Gordon E.
    12 <120> TITLE OF INVENTION: COMPOUNDS FOR IMMUNOTHERAPY AND
    13        DIAGNOSIS OF COLON CANCER AND METHODS FOR THEIR USE
    16 <130> FILE REFERENCE: 210121.471C11
C-->18 <140> CURRENT APPLICATION NUMBER: US/09/649,811
    19 <141> CURRENT FILING DATE: 2000-08-28
    21 <160> NUMBER OF SEQ ID NOS: 1083
    23 <170> SOFTWARE: FastSEQ for Windows Version 3.0
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    26 <211> LENGTH: 458
    27 <212> TYPE: DNA
    28 <213> ORGANISM: Homo sapien
    30 <220> FEATURE:
    31 <221> NAME/KEY: misc_feature
    32 <222> LOCATION: (1)...(458)
    33 <223> OTHER INFORMATION: n = A,T,C or G
    35 <400> SEQUENCE: 1
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    37  gacgatgtgg ttttcaggga ggcccagaga tttggagaag cggatgaagt tctcctttag     120
    38  ttccgaagtc agctccttgg ttctcccgta gagggtgatc ttgaagtact ccctgttttg     180
    39  agaaactttc ttgaagaaca ccatagcatg ctggttgtag ttggtgctca ccactcggac     240
    40  gaggtaactc gttaatccag ggtaactctt aatgttgccc agcgtgaact cgccgggctg     300
    41  gcaacctgga acaaaagtcc tgatccagta gtcacacttc tttttcctaa acaggacgga     360
    42  ggtgacattg tagctcttgt cttctttcag ctcatagatg gtggcataca tcttttgcgg     420
    43  gtctttgtct tctctgagaa ttgcattccc tgccagga                              458
    45 <210> SEQ ID NO: 2
    46 <211> LENGTH: 423
    47 <212> TYPE: DNA
    50 <213> ORGANISM: Homo sapien
    52 <400> SEQUENCE: 2
    53  cagggtccat aggtgatccg caactctcga gcatttatat acaatagcaa atcatccagt      60
    54  gtgttgtaca gtctataata ctccaacagt ctcccatctg tattcaatgg cgccacccaa     120
    55  tacagtcctt tgtttggatg ctgggggagg taatccctac cccaagcacc atatagataa     180
    56  gaaaaccctc tccagttgag ctgaaccaca gacggtttgc tgatgttcac cacaccacca     240
    57  tgaccacagc tccctggagt gggaggaggg tggacgacag gggtgttttg atctttagag     300
    58  gcttcacact ctttcagctt ggtcttcaga gccacgattt ctcggcgaat ggcaaggaca     360
    59  ttgttttgt ctagtgtctc aagcttctct accaagagag tcatatttct tatctccacc     420
    60  tcc                                                                   423
    62 <210> SEQ ID NO: 3
    63 <211> LENGTH: 538
    64 <212> TYPE: DNA
    65 <213> ORGANISM: Homo sapien
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ENTERED

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RAW SEQUENCE LISTING              DATE: 09/13/2000
PATENT APPLICATION:  US/09/649,811   TIME: 18:20:28

Input Set : A:\471c11.app
Output Set: N:\CRF3\09132000\I649811.raw
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 68 ggtctgtcca atggcaacag gaccctcact ctaytcartg tcacaagraa tgayrcagsa      60
 69 msctayraat gtgaaaycca gaacccagtg agtgccarsc gcagtgayyc agtcatcctg     120
 70 aatgtcctct atggcccrga tgmccccacc atttcccctc taaacacatm ttaccgwyca     180
 71 ggggaaaatc tgaacctctc ctgccacgca gcctctaacc cacctgcaca gtactcttgg     240
 72 tttrtcaatg ggactttcca gcaatccacm caagagctct ttatccccaa catcactgtg     300
 73 aataatagyg gatcctatac gtgccaagcc cataactcag mcactggcct caataggacc     360
 74 acagtcacga cgatcacagt ctatgcaaga gccacccaaa cccttcatca ccagcaacaa     420
 75 ctccaacccc gtggaggatg aggatgctgt agccttaacc tgtgaacctg agattcagaa     480
 76 cacaacctac ctgtggtggg taaataatca gagcctcccg gtcagtccca ggctgcag      538
 78 <210> SEQ ID NO: 4
 79 <211> LENGTH: 309
 80 <212> TYPE: DNA
 81 <213> ORGANISM: Homo sapien
 83 <400> SEQUENCE: 4
 84 tggtaascca aaaagatgct ggggcagatt gtggacaagt agaagaacct ccttcccctc      60
 85 tgcgaacatt gaacggcgtg gattcaatag tgagcttggc agtggtgggc gggttccaga     120
 86 aggttagaag tgaggctgtg agcaggagcc cctgccaggg gatvcacgca mtctgtgggg     180
 87 aggggctgag rggdgwcycc atggtctctg ctgtctgctc tgtcctcctc tgtggagaag     240
 88 agcttgagct ccaggaacgc tttgrtcavg gctgcctgtg acctytgctc tgbtctgcct     300
 89 gcccgggcg                                                            309
 91 <210> SEQ ID NO: 5
 92 <211> LENGTH: 412
 93 <212> TYPE: DNA
 94 <213> ORGANISM: Homo sapien
 96 <400> SEQUENCE: 5
 97 gtccaatggc aacaggaccc ctcacttcta ttcaatgtca caagaaatga cgcaagagcc      60
 98 tatgtatgtg gaatccagaa ctkcagtgag tgcaaaccgc agtgacccag tcaccctgga     120
 99 tgtcctctat gggccagaca scccccatca tttcccccc agactcgtct tacctttcgg     180
100 gagcgaacct caacctctcc tgccactcgg cctctaaccc atcccgcag tattcttggc      240
101 kgtatcaatg ggataccgca gcaacacaca caagttctct ttatcgccaa aatcacgcca     300
102 aataataacg ggacctatgc ctgttttgtc tctaacttgg ctactggccc gcaataattc     360
103 catagtcaag agcatcacag tcttctgcat ctggaacttc tcctggtctt ct             412
105 <210> SEQ ID NO: 6
106 <211> LENGTH: 332
107 <212> TYPE: DNA
108 <213> ORGANISM: Homo sapien
110 <400> SEQUENCE: 6
111 gtgcaagggc tttacaaaaa ctgtgccagt krcttctyca tgwsrcwrga tctgacttka      60
112 ttsaygttkt atgagsysya saatmctgaw gctcmttyts sakgrwsttc kgsatmrgca     120
113 gtsrattcsa catttgggrt akrtymtctc tsgaagysam tgtcakgcag tgrcayccwr     180
114 gkktcwgcwt gcwgtgrgtt amcakcmwtr ywtagkgsgm ayatrattta ramrgtayak     240
115 cymtctcmct cytycmccay wtgcwcaass mkcacacctc ggccgcgacc acgctaagcc     300
116 cgaattccag cacactggcg gccgttacta gt                                   332
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 401
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapien
123 <400> SEQUENCE: 7
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RAW SEQUENCE LISTING   DATE: 09/13/2000
PATENT APPLICATION: US/09/649,811   TIME: 18:20:28

Input Set : A:\471c11.app
Output Set: N:\CRF3\09132000\I649811.raw

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    124  tggtgttgtt ggcgccagtt ccctggacct ggaacagccg tgtggagggc ccggtctcca      60
    125  agttgttagt tcgggaggtg cctccctggt agaccaccat gcgtcccttg aagatggaca     120
    126  taagatgagg tggctccttg cccattggga cccggatctg gactggttca ccattgtact     180
    127  tctggtccag gatgacggct tgataagctg atgctgtaat ttcatcttgg ctggcctggc     240
    128  tgccctgcca aacgtagagc aggtaatgct gcttctcgcc gatgaaggta ggtgtaagag     300
    129  cagcaggtaa gcaagttcgc ccccatagaa gtgggcctag ccacttggaa ttccagcaca     360
    130  ctggcggccc gttactagtg ggatcccgag ctcggtacca a                         401
    132  <210> SEQ ID NO: 8
    133  <211> LENGTH: 1151
    134  <212> TYPE: DNA
    135  <213> ORGANISM: Homo sapien
    137  <400> SEQUENCE: 8
    138  ctctctccat aaaactcagc actttacaga tgtagaatat ataagcatgc caaatttact      60
    139  tatctgccac atacaaagca tcattccagg tgctagtgag gggaaaaaaa agttggagat     120
    140  ttggtccctc gaggagctcc agatattaat ctacctaact aagtccccag gtttcttcca     180
    141  ggcatggaag aattagtggt gctacatgga tgaggactag tcattgggca atatttcctg     240
    142  tacaaagaat ccctagacgc catactgagt tttaagttcc ttaattccta atttaaggct     300
    143  tctagtgaag cctcctcaca gtaggcttca ctaggcccac agtgccccta gacctctgac     360
    144  aatcccaccc tagacagact ttattgcaaa atgcgcctga agaggcagat gattcccaag     420
    145  agaactcacc aaatcaagac aaatgtccta gatctctagt gtggtagaac tatgcaccta     480
    146  aacattgctg caaaatgaac acactttag acaccctgc agatatctaa gtaagtggag     540
    147  aagactattt tttcaacaaa cattttctct ttcaccctaa ctcctaaaca gcttactggg     600
    148  gcttctgcaa gacagaaaga tcataattca gaaggtaacc atcgttatg acataaagtt     660
    149  tctggtcaaa agggttatag ttaatgctct gcactttttc ctgcatctta tgcattacaa     720
    150  tgtctagttt gccctctttc cctgtgtttg tgtcataata gtaaaaaatc tcttctgttc     780
    151  tggtgtttca tagtacgggt ggcatacaga accccacata ccatgaaggc gttagaagca     840
    152  gatggtttat actgcttggt ataccaagtg tttagcacct gaagtgtggt gtcattgagt     900
    153  ttactaatca ccatgttacc agtgctggct tcagttgaat aaataaccca caatccattc     960
    154  tcatccacag caaagtcaat atcttgccaa gcaacattag catatgaaaa gcggttatta    1020
    155  taggcagcat tagggagagt ttgagtcaca gcaatcgtgt tggtggtcag gttaactctg    1080
    156  gcaatattcc cggtgttgta catgttgacg tacatgttgt tgttgtaaac tgctgtacca    1140
    157  ctaccttgga c                                                         1151
    159  <210> SEQ ID NO: 9
    160  <211> LENGTH: 604
    161  <212> TYPE: DNA
    162  <213> ORGANISM: Homo sapien
    164  <220> FEATURE:
    165  <221> NAME/KEY: misc_feature
    166  <222> LOCATION: (1)...(604)
    167  <223> OTHER INFORMATION: n = A,T,C or G
    169  <400> SEQUENCE: 9
    170  ctgtgcaagg gctttacaaa aactgtgcca ggacttccca tgaggctgga ttgcttgatt      60
    171  catgttttat gagccccaca atactgaagc tccttttcca gggacttggc ataggcagtc     120
    172  aattccacat ttgggatagg tcctctctgg aagtgaatgt caggcagtga catccaagtt     180
    173  tctgcatgca gtgggttaac agccatgttt aggggggaaca tgatttaaaa agtacatctc     240
    174  tctccctcct cccccacatg cacaaggctc acatctcatt atggtgkcgg cccatgtcac     300
    175  attaaagtgt gatacttkgg ttttgaaaac attcaaacag tctctgtgga aatctggaga     360
W--> 176  gaaattggcg gagagctgcc gtggtgcatt cctcctgtag tgcttcaagn taatgcttca     420
W--> 177  tcctttntta ataacttttg atagacaggg gctagtcgca cagacctctg ggaagccctg     480
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                 RAW SEQUENCE LISTING              DATE: 09/13/2000
                 PATENT APPLICATION:  US/09/649,811    TIME: 18:20:28

                 Input Set : A:\471cll.app
                 Output Set: N:\CRF3\09132000\I649811.raw

     178  gaaaacgctg atgcttgttt gaagatctca agcgcagagt ctgcaagttc atcccctctt    540
     179  tcctgaggtc tgttggctgg aggctgcaga acattggtga tgacatggac cacgccattt    600
     180  gtgg                                                                 604
     182 <210> SEQ ID NO: 10
     183 <211> LENGTH: 473
     184 <212> TYPE: DNA
     185 <213> ORGANISM: Homo sapien
     187 <400> SEQUENCE: 10
     188  tcgagaagat ccctagtgag actttgaacc gtatcctggg cgacccagaa gccctgagag     60
     189  acctgctgaa caaccacatc ttgaagtcag ctatgtgtgc tgaagccatc gttgcggggc    120
     190  tgtctgtgga gaccctggag ggcacgacac tggaggtggg ctgcagcggg gacatgctca    180
     191  ctatcaacgg gaaggcgatc atctccaata aagacatcct agccaccaac ggggtgatcc    240
     192  actacattga tgagctactc atcccagact cagccaagac actatttgaa ttggctgcag    300
     193  agtctgatgt gtccacagcc attgacccttt tcagacaagc cggcctcggc aatcatctct    360
     194  ctggaagtga gcggttgacc ctcctgggct cccctgaatt ctgtattcaa agatggaacc    420
     195  cctccaattg atgcccatac aaggaatttg cttcggaacc acataattaa aga            473
     197 <210> SEQ ID NO: 11
     198 <211> LENGTH: 411
     199 <212> TYPE: DNA
     200 <213> ORGANISM: Homo sapien
     202 <220> FEATURE:
     203 <221> NAME/KEY: misc_feature
     204 <222> LOCATION: (1)...(411)
     205 <223> OTHER INFORMATION: n = A,T,C or G
     207 <400> SEQUENCE: 11
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     209  cctgatgcag ccacagcagc ccgaagggtc tcaaaggtgt cctcgatctc aatgatctgc    120
     210  tggatgttgt tggtgatggt ggagatgacc ttatcgatga ggtgcaccac cccgttggtt    180
     211  gcatggtggt cggctttyar carccgggca cagttcacag ttacaatccc attaggatag    240
W--> 212  tggtggatct nggatgttgg aattctggta catagnaggt gaggggtcat gcccgtgttt    300
     213  cagctcatca gtcaggactc gcctgcccac catatggtaa gcsgragggc atttgagcag    360
W--> 214  ctcaatgttt gacattgctg gaccagggga gttccagcac ttctangang a              411
     216 <210> SEQ ID NO: 12
     217 <211> LENGTH: 560
     218 <212> TYPE: DNA
     219 <213> ORGANISM: Homo sapien
     221 <400> SEQUENCE: 12
     222  tacttgcctg gagatwgcyt tykckwtmtg ytcwrawgtc cgtggataca gaaatctctg     60
     223  caggcaagtt gctccagagc atattgcagg acaagcctgt aacgaatagt taaattcacg    120
     224  gcatctggat tcctaatcct tttccgaaat ggcaggtgtg agtgcctgta taaaatattc    180
     225  tatgtttacc ttcaacttct tgttctggct atgtggtatc ttgatcctag cattagcaat    240
     226  atgggtacga gtaagcaatg actctcaagc aattttttggt tctgaagatg taggctctag    300
     227  ctcctacgtt gctgtggaca tattgattgc tgtaggtgcc atcatcatga ttctgggctt    360
     228  cctgggatgc tgcggtgcta taaaagaaag tcgctgcatg cttctgttgt ttttcatagg    420
     229  cttgcttctg atcctgctcc tgcaggtggg cgacaggtat cctaggagct gttttcaaat    480
     230  ctaagtctga tcgcattgtg aatgaaactc tctatgaaaa cacaaagctt ttgagcgcca    540
     231  caggggaaag tgaaaaacaa                                                 560
     233 <210> SEQ ID NO: 13
     234 <211> LENGTH: 150
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RAW SEQUENCE LISTING   DATE: 09/13/2000
PATENT APPLICATION: US/09/649,811   TIME: 18:20:28

Input Set : A:\471cll.app
Output Set: N:\CRF3\09132000\I649811.raw

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235 <212> TYPE: DNA
236 <213> ORGANISM: Homo sapien
238 <400> SEQUENCE: 13
239  gggcaggctg tctttttaaa atgtctcggc tagctagacc acagatatct tctagacata      60
240  ttgaacacat ttaagatttg agggatataa gggaaaatga tatgaatgtg tatttttact     120
241  caaaataaaa gtaactgttt acgttggtga                                      150
243 <210> SEQ ID NO: 14
244 <211> LENGTH: 403
245 <212> TYPE: DNA
246 <213> ORGANISM: Homo sapien
248 <400> SEQUENCE: 14
249  ctgctgcctg tggcgtgtgt gggctggatc ccttgaaggc tgagtttttg agggcagaaa      60
250  gctagctatg ggtagccagg tgttacaaag gtgctgctcc ttctccaacc cctacttggt     120
251  ttccctcacc ccaagcctca tgttcatacc agccagtggg ttcagcagaa cgcatgacac     180
252  cttatcacct ccctccttgg gtgagctctg aacaccagct ttggcccctc cacagtaagg     240
253  ctgctacatc aggggcaacc ctggctctat cattttcctt ttttgccaaa aggaccagta     300
254  gcataggtga gccctgagca ctaaaaggag gggtccctga agctttccca ctatagtgtg     360
255  gagttctgtc cctgaggtgg gtacagcagc cttggttcct ctg                       403
257 <210> SEQ ID NO: 15
258 <211> LENGTH: 688
259 <212> TYPE: DNA
260 <213> ORGANISM: Homo sapien
262 <220> FEATURE:
263 <221> NAME/KEY: misc_feature
264 <222> LOCATION: (1)...(688)
265 <223> OTHER INFORMATION: n = A,T,C or G
267 <400> SEQUENCE: 15
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269  tatagactag gacttgaaca tcaaaggaaa aatagacaaa gactagatga taaagtcatt     120
270  caaaagcaca gaagcacatc acatacacca gcaaggtttc caactactgc actgattaac     180
271  tagatactct caatagcttt tctatagctc gtcctagaaa aaaaaattaa attttcattt     240
272  tcttacaagt tccaggctta aacaaaggca aaaattacat gcaacaactg atacactcat     300
273  aagttgcaca tatgctccaa ggtctttatt agataacaat aaatgctagc actttgtcac     360
274  tgccatcaga ttttccttat agtcttagag tcatgtaaat aaaagttcca taatgaaatt     420
275  aaagaaaatt aattttcta atcttagatc agttccatag aaaactatta attttttaa       480
276  agtaggcagt agaagggggt tggtggggggg tggaattggt tagtaagtct ggttctaatc     540
277  ttctgagctg cctttggaag gaagttatga ggtagaagat tctactgact tttagtaagg     600
W--> 278  tggacaatga gagaaaagaa aaagcaggtg cctcatcnnc agatccttnt ggtatttatn     660
W--> 279  tgccangtnc nanntaatnc atanaaag                                       688
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282 <211> LENGTH: 408
283 <212> TYPE: DNA
284 <213> ORGANISM: Homo sapien
286 <400> SEQUENCE: 16
287  caggtcatca agatgactta caggatgtaa tagggagagc tgtcgagatt ggtgttaaaa      60
288  agtttatgat tacaggtgga aatctacaag acagtaaaga tgcactgcat ttggcacaaa     120
289  caaatggtat gtttttcagt acagttggat gtcgtcctac aagatgtggt gaatttgaaa     180
290  agaataaccc tgatctttac ttaaaggagt tgctaaatct tgctgaaaac aataaaggga     240
291  aagttgtggc aataggagaa tgcggacttg attttgaccc gactgcagtt ttgtcccaaa     300
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY   DATE: 09/13/2000
PATENT APPLICATION: US/09/649,811   TIME: 18:20:29

Input Set : A:\471cll.app
Output Set: N:\CRF3\09132000\I649811.raw

L:18 M:270 C: Current Application Number differs, Wrong Format
L:36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:365 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:384 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:412 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:430 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:434 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:473 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:591 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:593 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:620 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:621 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:622 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:656 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:688 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:692 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:749 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:813 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50

VERIFICATION SUMMARY   DATE: 09/13/2000
PATENT APPLICATION: US/09/649,811   TIME: 18:20:29

Input Set : A:\471cll.app
Output Set: N:\CRF3\09132000\I649811.raw

L:827 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:829 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50